CHIEFTEC

DUAL BAY RAID ENCLOSURE

CEB-2235S Supports 6 modes : Dual / JBOD / RAID 0 /RAID 1 /SAFE 33 /SAFE 50

- Unique structure for better air-flow.
- Complete screw-less design One button opening mechanism.
- Ball bearing cooling fan for Silent and long-life cooling.
- For 2.5" & 3.5" SATA HDD use.

FC Tested To Comply With FCC Standards
FOR HOME OR OFFICE USE

****Please read this manual carefully before you use the product****

Description :

The CEB-2355S is a multifunction storage device designed in a special body structure, which can be simply connected to the PC by either USB2.0 or eSATA. It supports 2 SATA HDDs with entirely screw free patent design for easy installation and is additionally equipped with ball bearing fans to keep the HDDs cool !!

MODE:

- **Dual Mode: 2** HDDs appear on your computer and can be used / accessed simultaneously
- **JBOD Mode: Y**our computer displays 1 HDD with the capacity of two HDDs combined
- **Raid 0 Mode**: T**his mode involves no redundancy and splits the files equally into each HDD. The advantage of this mode is the data transfer speed, but the disadvantage is data might be damaged if one of the HDDs is defect.
- **Raid 1 Mode** (mirroring): O**ne HDD has its data duplicated on another HDD. If either drive fails, the other continues to function as a single drive and thus provides full redundancy.
- **SAFE50 Mode* :** ½ (50%) of the HDD volume is used for mirroring and the rest is used for Raid 0.
- **SAFE33 Mode* :** 1/3 (33%) of the HDD volume is used for mirroring and the rest is used for Raid 0.

* The SAFE33 & SAFE50 modes only perform when your motherboard / PCI card contains Silicon IC
** Some WD (Western Digital) Desktop Edition HDDs do not support the RAID function. Please check the website below for more information.
http://wdc.custhelp.com/cgi-bin/wdc.cfg/php/enduser/std_adp.php?p_faqid=1397&p_created=1131638613&p_sid=PV5Aepsj&p_accessibility

FEATURES:

1. Entirely screw-free patent design for easy installation
2. Aluminum and unique casing with ball bearing fan to provide best possible heat dissipation
3. Support 2.5” & 3.5” SATA HDD.
4. Support 6 modes: Dual / JBOD / RAID 0 / RAID 1 / SAFE33 / SAFE50.
5. Plug and Play / Hot Swapping.
6. OS support Windows 2000 / XP / Vista/ Windows7 / Mac OS 10.4.8 above/ Linux.

SPECIFICATIONS

Material	Aluminum
HDD Type	3.5" and 2.5" SATA Ⅰ /Ⅱ HDD
Interface & Transfer Rate	USB2.0 up to 480 Mbps eSATA up to 3.0 Gbps
System Requirements	Windows 2000 / XP / Vista /WIindows7 / Mac 10.4.8+/Linux
RAID Modes	Dual/JBOD/RAID0/RAID1/SAFE33/SAFE50
LED	-Green for Power -Blue for Access、HDD1 and HDD2 -Red for Error
Dimension	165 x 116 x 197 mm (L x W x H)
Power	AC Input：100 ~ 240V, DC Output：12V 3A.

SYSTEM REQUIREMENTS:

- Intel Pentium-II 500MHz, 64MB RAM
- Windows 2000/XP/Vista/windows 7or Mac OS 10.4.8 above/Linux
- 250 MB of free disk space
- eSATA Connection : SteelVine Host Bus Adapter card and associated software drivers, or any other SATA Host Card with Port Multiplier support.
- USB Connection：USB 1.1 or 2.0 direct host connection or USB Hub.

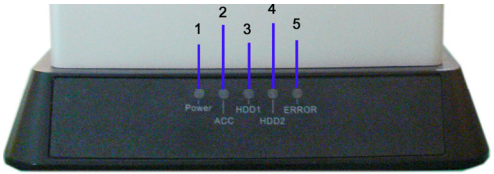
Strongly recommended to use Intel Pentium 4 systems or higher

PACKAGE CONTENT:

USB 2.0 + eSATA	
Item	**Quantity**
Dual HDD enclosure	1 PC
Installation Guide / Manual	1 PC
eSATA cable	1 PC
USB cable	1 PC
PCI bracket for eSATA	1 PC
Adapter (12V/3A)	1 PC
RB	4PCS

PANEL DESCRIPTION:

Front Panel



1、 Power LED: Lights up when the product is turning on

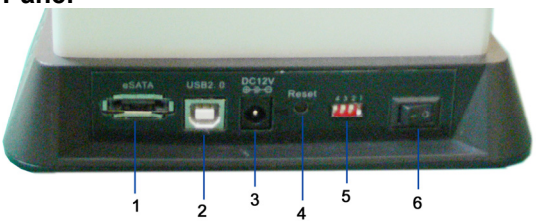
2、 Access LED: Blinks while transferring data

3、 HDD1: LED light on indicates successful connection of HDD1

4、 HDD2: LED light on indicates successful connection of HDD2

5、 Error LED: When Error LED turns on, please check the product settings, software or HDD status

Back Panel



1、eSATA Interface

2、USB2.0 Interface

3、DC-(JACK) Connection: Adapter OUTPUT (DC 12V)

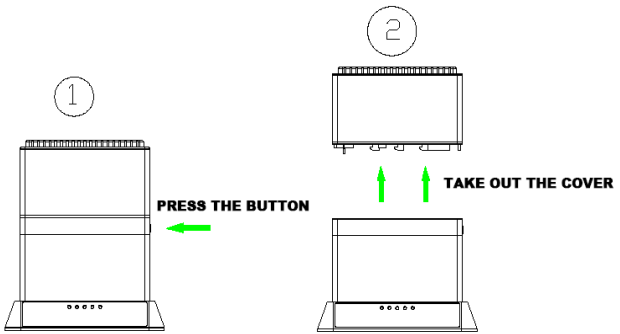
4、Reset button: Please press the reset button after selecting the mode.

5、Mode selection switch: Select your preferred mode and see under “MODE SELECTION” for further instruction

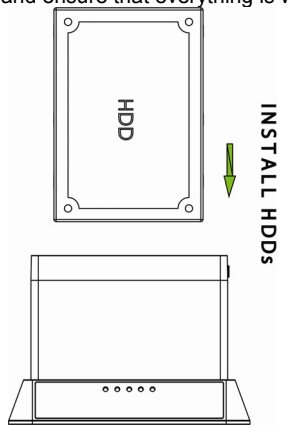
6、Power ON/OFF switch.

INSTALLATION GUIDE:

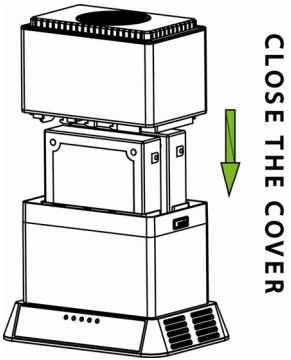
1. Press the side button to open the cover

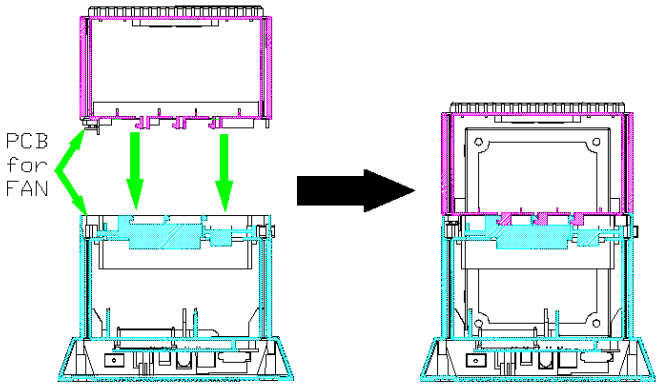


2. Plug-in the HDDs and ensure that everything is well connected



3. Close the cover.





4. Connect the DC adapter (into) with the enclosure and the socket.

5. Plug USB or eSATA cable into the enclosure and PC.(USB & eSATA interface **can not** be used at the same time)

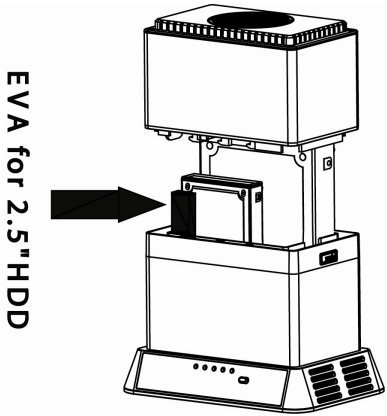
6. Select your mode. (The SAFE33 & SAFE50 modes are only available with motherboards/PCI cards that contain Silicon IC)

**** Please see "MODE SELECTION for further details ****

7. Please wait 1~2 minutes when CEB-2355S is connected to the PC for the first time. (Recognition time varies with different OS)

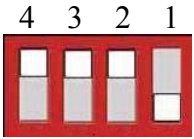
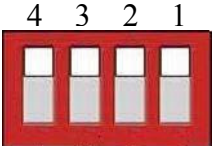
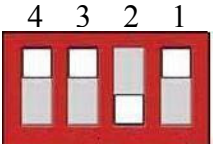
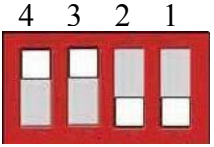
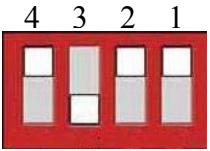
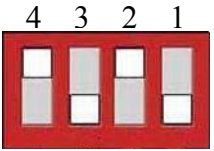
8. Installation of 2.5 HDDs

9. Plug the HDDs into the enclosure and ensure everything is well connected. For more stabilization insert the EVA



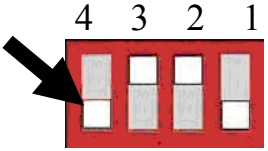
MODE SELECTION:

Please select your desired mode by following the illustration below and press "**Reset**" once the mode is selected.

MODE	SWITCH		MODE	SWITCH
DUAL			JBOD	
RAID 0			RAID 1	
SAFE 33			SAFE 50	

Attention :

1、 The RESET button will not work when button no. 4 is pressed down. Therefore select your desired mode first before you press down button no. 4 to prevent an error function



2、 Please follow the illustrations and select your desired mode by adjusting the switch. Press "**RESET** once the mode is selected.

3、 For certain mode change, you will be requested to reformat your HDDs. For example, if you switch from JBOD to DUAL mode.

4、 If you select Raid 0 mode, it is necessary to format the hard drive before using it.

5、 If you select Raid 1 mode, the HDDs need to be formatted (in Dual Mode) first and switch it to Raid 1 mode. If you would like to see the mirroring HDD, you need to switch it to Dual Mode to see it.

6、 When you use the eSATA connection, if your motherboard does not either contain Silicon Image IC controller or have the port multiplier function, it is very important to know that there is only JBOD mode can be used.

7、 If you would like to switch from Raid 0/Raid 1/Safe 33/Safe 50 to the other mode, please make sure to remove the old partition first and create a new partition after resetting a new mode. (Right-click the *My Computer* icon → select *Manage* → select Disk Management under Storage)

8、 If the HDD does not react after changing the mode, please initialize and format it before doing the partition

9、 Under Windows XP 32 OS, the maximum total capacity of 2 HDDs is 3TB. If the capacity exceeds this limit, the HDDs will not function. (Please check the official Windows website for detailed information)

Partitioning Volumes

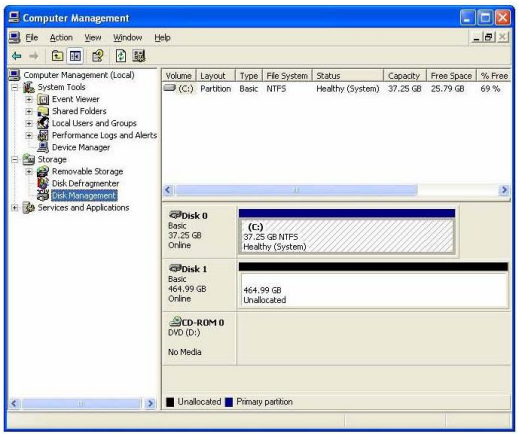
MS Windows

Important: Before reconfiguring a volume, back up your data.

1. Right-click the ***My Computer*** icon on your desktop and

select ***Manage*** from the pop-up window.

2. Select ***Disk Management*** under ***Storage*** to open the Windows Disk Manager. This example below illustrates the ***JBOD*** mode, which concatenates the capacity of all hard drives connected to the CEB-2355S



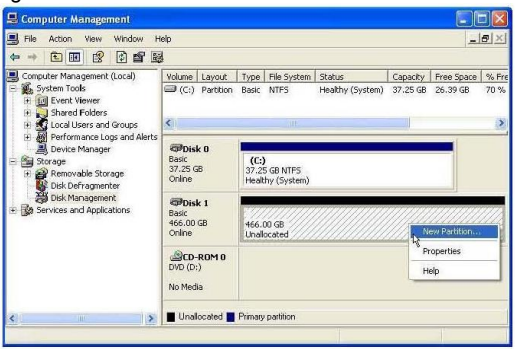
Every Disk should appear with the word "***Basic***", a size value that shows the available storage capacity, and a status of "***Online***". Instead of Basic, a disk could appear as ***Unknown***, ***Dynamic***, or ***Not Initialized***.

If a disk appears as "***Unknown***", right-click the disk icon and select ***Write Signature***. A window opens with the selected disk (All **Unknown** disks may appear in this window). Make sure the box next to each disk is checked and click ***OK***. The disk should be marked as a ***Basic*** disk now.

If a disk appears as "***Dynamic***", right-click the disk icon and select ***Rever to Basic disk***. Within a few seconds the disk should be marked as a ***Basic*** disk.

If a disk is marked "***Not Initialized***", right-click the disk icon and select ***Initialize Disk***. An additional dialog box appears allowing you to select which disks to initialize.

3. Right-click the configured disk's unallocated space and select ***New Partition***. If the New Partition option is not available, select the disk and initialize it first. To do this, right-click on the disk item and select "Initialize Disk".



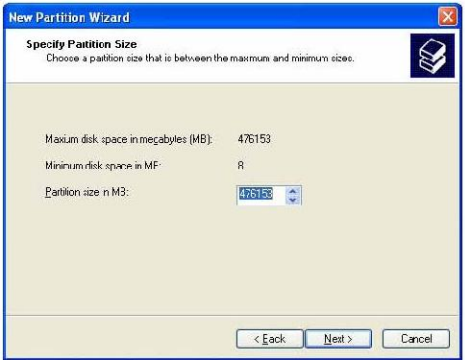
4. Click Next to start the Partition Wizard.

New Partition Wizard
Welcome to the New Partition Wizard
This wizard helps you create a partition on a basic disk.
A basic disk is a physical disk that contains primary partitions, extended partitions, and logical drives. You can use any version of Windows or MS-DOS to gain access to partitions on basic disks.
To continue, click Next.
< Back
Next >
Cancel

5. Select the Primary or Extended option and click ***Next***.

New Partition Wizard
Select Partition Type
There are three types of partitions: primary, extended, and logical.
Select the partition you want to create:
Primary partition
Extended partition
Logical drive
Description
A primary partition is a volume you create using free space on a basic disk. Windows and other operating systems can start from a primary partition. You can create up to four primary partitions or three primary partitions and an extended partition.
< Back
Next >
Cancel

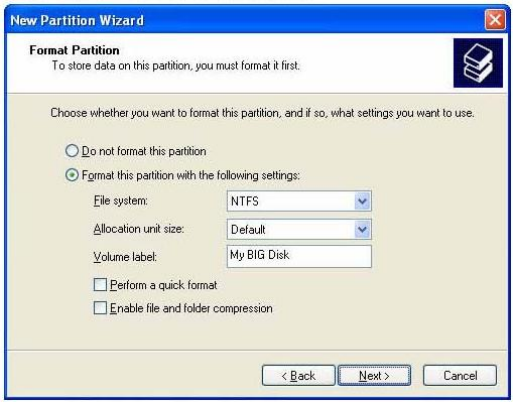
6. Specify the partition size. By default, the partition occupies the entire volume. Click ***Next***.


New Partition Wizard
Specify Partition Size
Choose a partition size that is between the maximum and minimum sizes.
Maximum disk space in megabytes (MB): 476153
Minimum disk space in MB: 8
Partition size in MB: 476153
< Back
Next >
Cancel

7. Assign a drive letter or mount path and click ***Next***.

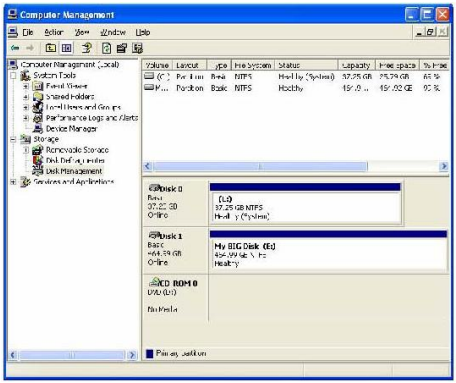
New Partition Wizard
Assign Drive Letter or Path
For easier access, you can assign a drive letter or drive path to your partition.
Assign the following drive letter:
E
Mount in the following empty NTFS folder:
Browse...
Do not assign a drive letter or drive path
< Back
Next >
Cancel

8. Name and format the partition and click ***Next***.


New Partition Wizard
Format Partition
To store data on this partition, you must format it first.
Choose whether you want to format this partition, and if so, what settings you want to use.
Do not format this partition
Format this partition with the following settings:
File system:
NTFS
Allocation unit size:
Default
Volume label:
My BIG Disk
Perform a quick format
Enable file and folder compression
< Back
Next >
Cancel

9. Review the file system settings and click **Finish** to create the logical Partition.

10. Repeat steps I through 9 to partition any remaining disks.



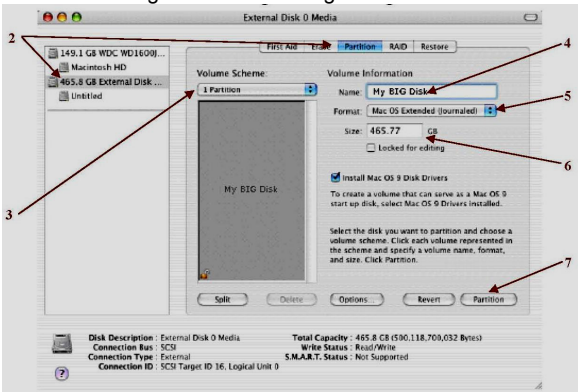
Mac OS X

Important: Before reconfiguring a volume, back up your data and drag the old drive to the trash to un-mount. If no hard drives are connected to the Storage Appliance, the SteelVine Processer disk (8.0GB Config Disk Media) will appear. Do not remove or modify that partition. After you configure and partition the new volumes, restore the back-up data to the new configuration.

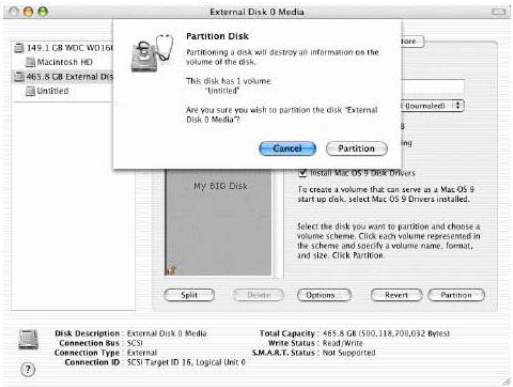
1. Launch ***Disk Utility*** from the ***Application > Utilities*** folder.

2. Select a configured disk and click the partition tab. This procedure illustrates the ***JBOD*** Storage Policy configuration, which

concatenates the capacity of all hard drives connected to the SteelVine Storage Reference Design.



3. Select ***1 Partition*** from the ***Volume Scheme*** drop-down list.
4. Enter a name for the volume in the ***Name*** field (such as “My BIG Disk.)
5. Select ***Mac OS Extended (journaled)*** from the ***Format*** drop-down list.
6. Specify the size of the partition in the ***Siz***e field.
7. Click the ***Partition*** button.
8. Click ***Partition*** to acknowledge the warning.


External Disk 0 Media
Partition Disk
Partitioning a disk will destroy all information on the volume of the disk.
This disk has 1 volume:
"Untitled"
Are you sure you wish to partition the disk "External Disk 0 Media"?
Cancel
Partition
149.1 GB WDC WD16
Macintosh HD
465.8 GB External Dis
Untitled
My BIG Disk
Install Mac OS 9 Disk Drivers
To create a volume that can serve as a Mac OS 9 start up disk, select Mac OS 9 Drivers installed.
Select the disk you want to partition and choose a volume scheme. Click each volume represented in the scheme and specify a volume name, format, and size. Click Partition.
Split
Delete
Options...
Revert
Partition
Disk Description : External Disk 0 Media
Connection Bus : SCSI
Connection Type : External
Connection ID : SCSI Target ID 16, Logical Unit 0
Total Capacity : 465.8 GB (500,118,700,032 Bytes)
Write Status : Read/Write
S.M.A.R.T. Status : Not Supported

Disk Utility mounts the created partition and represents it with an icon on the desktop. The icon is labeled with the partition name.

9. Review the file system setting and click ***Finish*** to create the logical partition.
10. Repeat steps 1 through 9 to partition any remaining disks.

To remove the device:

USB interface
For Windows 2000/XP/Vista Users

Please double-click the icon OR on the system tray. A dialog box will appear.

Double-click the Generic USB Storage Device to remove the device for preventing data loss.

Mac OS

You can remove the cable of USB after putting the icon of USB HDD on the desktop into the trash can.

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